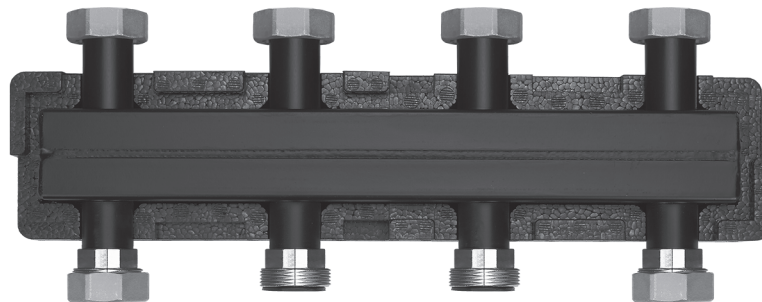


Manifold up to 70kW

Instructions for Installation, Commissioning, Operation and Maintenance



PR 24002 227 16-05-2017 Technische Änderungen vorbehalten



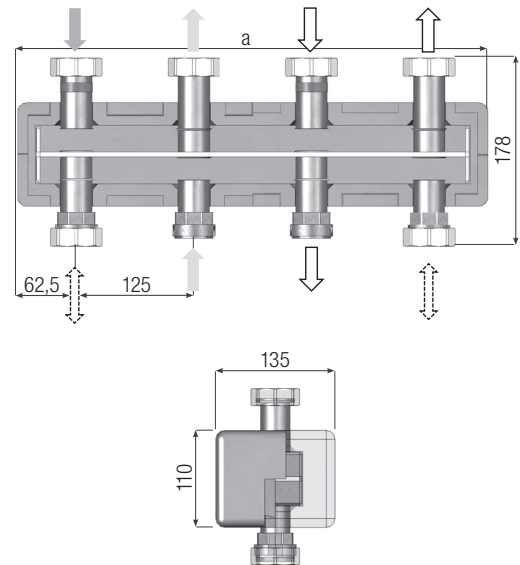
Content

1.	Basics	3
1.1	Technical data	3
1.2	Safety instructions	3
1.3	Intended use	3
1.4	Functions	4
2.	Installation and operation	5
2.1	Installation	5
2.2	Hydraulic connection	6
2.3	Commissioning	7
2.4	Operation	7
2.5	Maintenance	7

1. Basics

1.1 Technical data

Connection pairs - upper	2	3	4
Connection pairs - lower	2	3	4
Width (a)	500 mm	750 mm	1.000 mm
Upper connections (heating circuit)	1 ½" internal thread (union nut)		
Lower connections (heat generator / boiler guard, heating circuit)	Choice of 1 ½" male thread or female thread (flat sealing, half-shell technology. 2x open, remainder capped)		
Distance between supply and return line	125 mm		
Material - manifold	Steel (interior untreated, exterior primed)		
Material - insulation	EPP		
Max. temperature of heat transfer medium	110 °C		
Permissible positive operating pressure	6 bar		
Kvs value	Approx. 15 (→ 0,04 bar at 3m³/h)		
Nominal flow rate / power	3 m³/h / 70kW (at 20K spread)		



1.2 Safety instructions

Please follow these safety instructions faithfully to eliminate hazards, personal injury and material damage. The installation, commissioning, inspection, maintenance and servicing may only be performed by an approved, specialist company. Please familiarise yourself with all the parts and their handling before starting work. Observe the applicable accident prevention regulations, environmental regulations and legislation for the assembly, installation and operation of the system. In addition, observe the applicable safety provisions of the DIN, EN, DVGW, VDI and VDE and all relevant country-specific standards, laws and guidelines.

When working on the system: Disconnect the system from the mains and monitor it to ensure that no voltage is being supplied (e.g. at the separate cut-out or a main switch). Secure the system against being restarted. (With gas-fuelled systems, close the gas shut-off valve and secure it to prevent it from being opened unintentionally). Repairs to components with a safety function are not permitted. The installation location must be dry and frost proof. Hazards resulting from adjacent components must be avoided. Free access must be ensured.

1.3 Intended use

The components listed in the following instructions are intended for use in heating systems according to DIN EN 12828. The manifold is an optional system component that simplifies the installation of a heat distribution system with several pump groups. Heating circuit groups (each with the supply line on the right-hand side) are usually positioned on the top of the manifold. The pipes of a heat generator are usually connected to the open lower connections. Additional lower connections may be used as required, e.g. for additional heat generators, additional heating circuits, buffer tank, safety devices, etc.

1. Basics

1.4 Functions

① Thermal insulation:

Robust insulation shells with locking mechanism minimise the heat losses. Wall installation brackets (accessories) surround the insulation. The bracket is thus thermally separated and acoustically insulated.

② Identification of the hydraulically connected areas:

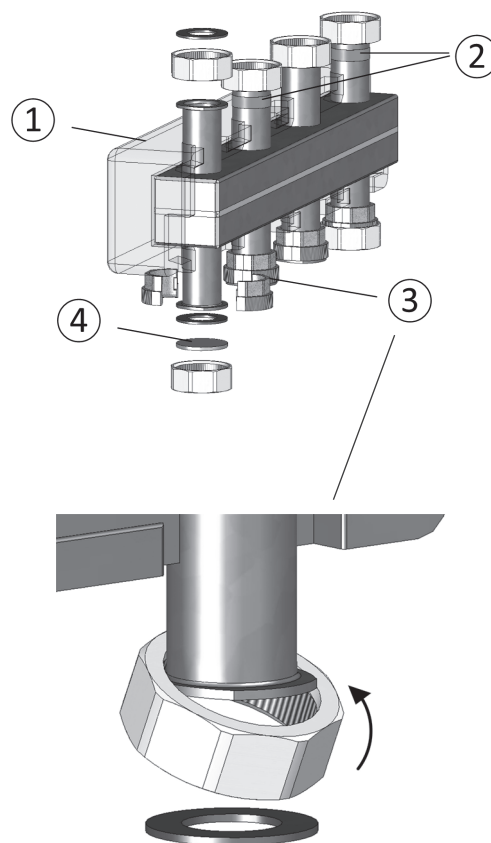
The connections, which are hydraulically connected to one another inside, are colour coded (please also refer to the Technical Data)

③ Chose between male or female thread:

The lower connections are fitted with removable half-shells with 1 ½" male thread. A union nut (female thread) can also be used on the flanged connections in place of the half-shells.

④ Blind caps:

Two of the lower connections are only fitted with the half-shells described under ③. The remaining 2, 4 or 6 lower connections are also capped with a union nut incl. suitable metal washer. The connections that are capped for delivery can be used as a connection with a 1 ½" male or female thread as required.



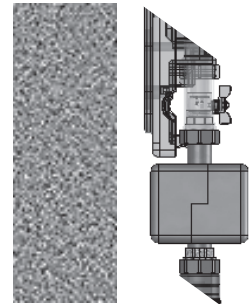
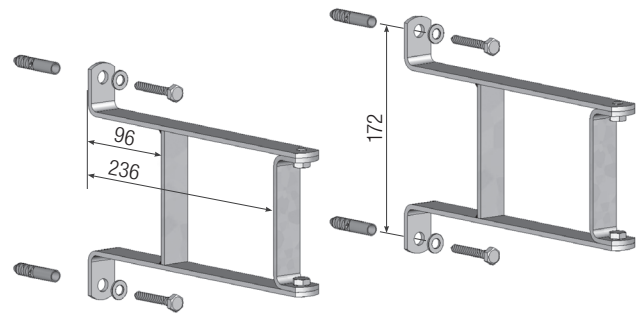
2. Installation and operation

2.1 Installation

We recommend first securing the manifold with the corresponding wall brackets (accessories) and screwing on the pump groups without additional fixings. The number of wall brackets depends on the total weight (with x pump groups) and the structure of the wall. Securing the pipes also secures the system against tilting.

Note: The positioning of the manifold 96 mm from the wall enables the (de-)installation of the insulation shells of the Meibes pump groups. The pipes are positioned 163.5 mm from the wall.

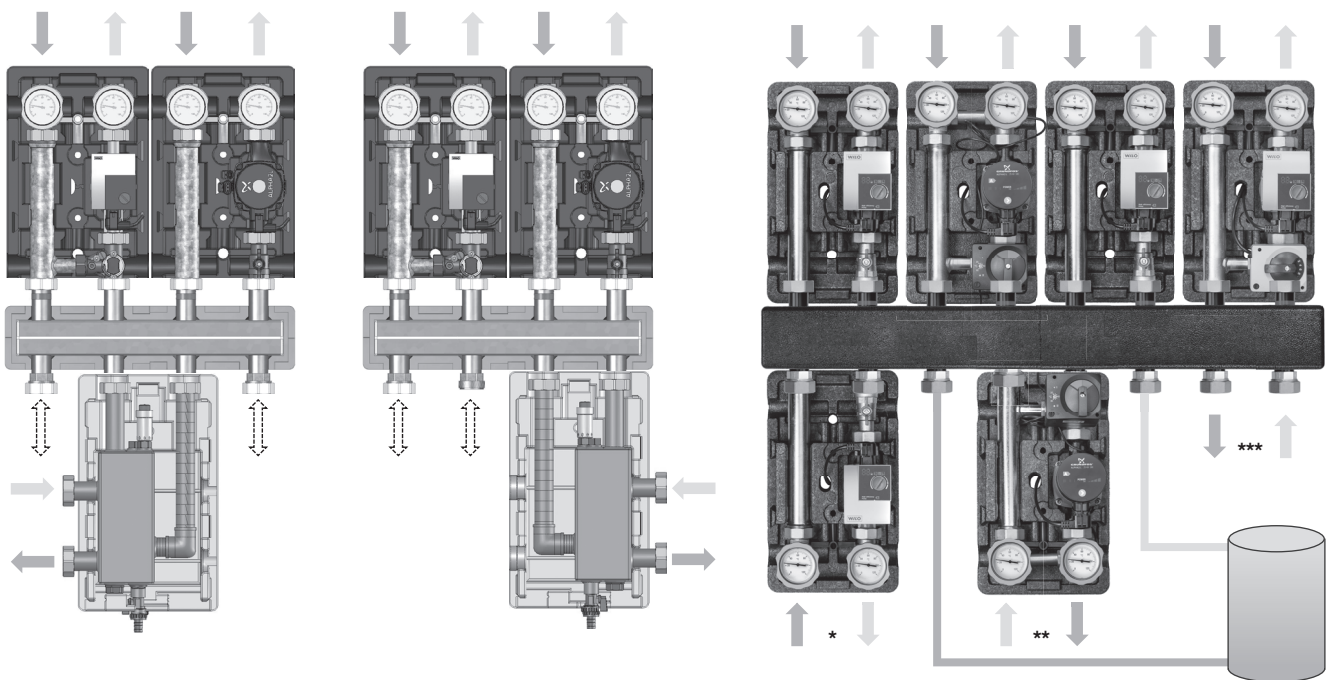
Alternatively, the manifold can be secured to the fastened pump groups without needing its own wall bracket. The pump groups and pipework must be fastened appropriately to ensure they are capable of taking the weight and other loads.



2. Installation and operation

2.2 Hydraulic connection

In most cases, heating circuit pump groups with the supply line on the right-hand side are used. In specific circumstances, heating circuit pump groups with the supply line on the left-hand side simplify installation. The choice is achieved by assigning the connections below (see hydraulically connected areas (please also refer to the Technical Data)). The supply and return lines must be connected to the correspondingly identified connectors on the manifold.



* Radiator heating circuit with supply line on left-hand side

** Return riser (wood boiler) & corresponding buffer

*** Conventional heating boiler

2.3 Commissioning

1. Check the leak tightness of the system
2. Flush, fill and bleed the pipework (with filling water in accordance with VDI 2035)

2.4 Operation

Please note the application limits:

- Permissible media: Heating water (in accordance with VDI 2035, non-corrosive), max. glycol content: 50%
- Permissible pressure rating: PN6
- Permissible temperature of the medium: 0-110°C
Room temperature 5°C to 70°C (non-condensing)
- Recommended max. flow rate: 3 m³/h

Prevent oxygen from entering the medium.

2.5 Maintenance

The manifold is maintenance-free.

We recommend performing regular leak-tightness tests.

